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APPLICATION FOR UNITED STATES LETTERS PATENT
SPECIFICATION

(MBHB Case No. 99,599; 3Com Case No. 2626.S4.US.P)

Title: **PROXIMITY-BASED REGISTRATION ON A DATA NETWORK
TELEPHONY SYSTEM**

Inventors: Guido M. Schuster, a citizen of Switzerland, and a resident of Des Plaines,
Illinois;

Sagan Sidhu, a citizen of the United States, and a resident of Vernon Hills,
Illinois;

Ikhlaq S. Sidhu, a citizen of the United States, and a resident of Vernon
Hills, Illinois; and

Jacek A. Grabiec, a citizen of Poland, and a resident of Chicago, Illinois.

Priority: This application is a Continuation-In-Part of U.S. Patent Application No.
09/451,388, filed November 30, 1999 by Guido M. Schuster, et al., and
titled "System and Method for Providing User Mobility Services on a
Telephone Network," which is a Continuation-In-Part of U.S. Patent
Application No. 09/181,431, filed October 30, 1998 by Peter Si-Sheng
Wang, et. al., and titled "Method, Apparatus and Communications System
for Companion Information and Network Appliances," both of which are
assigned to 3Com Corporation.

Assignee: 3Com Corporation
5400 Bayfront Plaza
Santa Clara, California 95052

Proximity-Based Registration on a Data Network Telephony System

BACKGROUND OF THE INVENTION

A. Priority

5 This application is a continuation-in-part of U.S. Patent Application 09/451,388,
now U.S. Patent No. 6,446,127
filed November 30, 1999 by inventors Guido Schuster, Ikhlaq Sidhu, Jerry Mahler, Rick
Dean, Jacek Grabiec, and Ismail Dalgic, titled "System and Method for Providing User
Mobility Services on a Telephone Network," assigned to 3Com Corporation, which is a
continuation-in-part of U.S. Patent Application Number 09/181,431, filed October 30,
10 now U.S. Patent No. 6,161,124
1998 by inventors Peter Si-Sheng Wang and Ismail Dalgic, titled "Method, Apparatus
and Communications System for Companion Information and Network Appliances," also
assigned to 3Com Corporation.

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B. Field of the Invention

The present invention is related to providing user mobility services on a network.
15 In particular, the present invention relates to providing proximity-based registration
services on a data network telephony system.

C. Description of the Related Art

For many years, telephone service providers on the Public Switched Telephone
Network (PSTN) provided their customers nothing more than a telephone line to use to
20 communicate with other subscribers. Over time, telephone service providers have
enhanced their service by providing Custom Local Area Signaling Service (CLASS)
features to their customers. Similar communication services are provided by a Private
Branch Exchange (PBX), which is typically implemented in a nonresidential setting.

The CLASS features permit customer subscribers of the features to tailor their
25 telephone service according to individual needs. Some of the more popular CLASS
features are:

- *Call blocking:* The customer may specify one or more numbers from which he
or she does not want to receive calls. A blocked caller will hear a rejection message,
while the callee will not receive any indication of the call.

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* "Personalizing a Data Network Appliance on a Data Network Telephony System"
Serial No. 09/515,970
to Schuster, et al., Attorney-Docket No. 99,598, filed concurrently herewith;

* "System and Method for Providing User Mobility Services on a Telephony Network" to Schuster, et al., Serial No. 09/451,388; now U.S. Patent No. 6,446,127.

5 * "System and Method for Providing Call-Handling Services on a Telephony
Network" to Schuster, et al., Serial No. 09/470,879; now U.S. Patent No. 6,584,490.

* "Method Apparatus and Communication System for Companion Information and Network Appliances" to Wang, et al., Serial No. 09/181,431; *Now U.S. Patent No. 6,166,134.*

* “System and Method for Controlling Telephone Service Using a Wireless
10 Personal Information Device” to Schuster, et al., Serial No. 09/406,321;

* “System and Method for Advertising Using Data Network Telephone Connections” to Schuster, et al., Serial No. 09/406,320;

* "System and Method for Providing User-Configured Telephone Service in a Data Network Telephony System" to Sidhu, et al., Serial No. 09/405,283; now U.S. Patent No. 6,744,759.

15 * “System and Method for Accessing a Network Server Using a Portable
 Information Device Through a Network Based Telecommunication System” to
 Schuster, et al., Serial No. 09/406,322;

20 * "System and Method for Interconnecting Portable Information Devices Through a
Network Based Telecommunication System" to Schuster, et al., Serial No.
09/406,152; now U.S. Patent No. 6,681,758.

* "System and Method for Enabling Encryption on a Telephony Network" to Schuster, et al., Serial No. 405,981;

* "System and Method for Associating Notes with a Portable Information Device on a Network Telephony Call" to Schuster, et al., Serial No. 09/406,151; now U.S. Patent No. 6799899.

25 * “System and Method for Providing Shared Workspace Services Over a Telephony
 Network” to Schuster, et al., Serial No. 09/406,298;

* "System and Method for Providing Service Provider Configurations for
Telephones in a Data Network Telephony System" to Schuster, et al., Serial No.
09/406,066;

5 * System and Method for Using a Portable Information Device to Establish a
Conference Call on a Telephone Network" to Schuster, et al., Serial No.
09/406,128; now U.S. Patent No. 6,157,688.

* "Multiple ISP Support for Data Over Cable Networks" to Ali Akgun, et al., Serial
No. 09/321,941;

10 * "Method and System for Provisioning Network Addresses in a Data-Over-Cable
System" to Ali Akgun, et al., Serial No. 09/218,793; and ^{now U.S. Patent No. 6,657,991}

* "Network Access Methods, Including Direct Wireless to Internet Access" to
Yingchun Xu, et al., Serial No. 08/887,313, now U.S. Patent No. 6,151,688.

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Number Portability and Advanced Call Screening in a SIP-Based IP Telephony System,"
IEEE Communications Magazine, July, 1999, pp. 96-101; and U.S. Patent Application
No. 09/181,431 ^{now U.S. Patent No. 6,161,134} "Method, Apparatus and Communications System for Companion
Information and Network Appliances," filed on October 30, 1998, by Inventors Peter Si-
5 Sheng Wang and Ismail Dalgic, assigned to 3Com Corporation, both of which are
incorporated by reference herein.

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